

Applicants: Shoji Miyazaki et al.
Appl. No.: Not yet Assigned
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page 3

Amendments to the Claims:

Please cancel claims 1-44 without disclaimer or prejudice to applicants' right to pursue the subject matter of these claims in a future continuation or divisional application.

Please add new claims 45-76 as follows:

1-44. (Canceled)

45. (New) A biosensor for quantifying a substrate included in a sample liquid comprising:

a first insulating support and a second insulating support;
an electrode part comprising at least a working electrode and a counter electrode;
a specimen supply path for introducing the sample liquid to the electrode part; and
a reagent layer employed for quantifying the substrate included in the sample liquid,

where the electrode part, the specimen supply path, and the reagent layer are situated between the first insulating support and the second insulating support,

the specimen supply path being provided on the electrode part, and the reagent layer being provided on the electrode part in the specimen supply path, respectively,

the electrode part being dividedly formed by a first type of slits provided on an electrical conductive layer which is formed on the whole or part of an internal surface of one or both of the first insulating support and the second insulating support,

the reagent layer is formed by dripping a reagent, and

a second type of slits is provided around a position where the reagent is dripped.

46. (New) The biosensor as defined in Claim 45, wherein the second type of slits is arc shaped.

47. (New) The biosensor as defined in Claim 45, wherein the electrode part further comprises a detecting electrode.

48. (New) The biosensor as defined in Claim 47, wherein the counter electrode is provided on the whole or part of the internal surface of the second insulating support,

the working electrode and the detecting electrode are provided on the whole or part of the internal surface of the first insulating support, and

the working electrode and the detecting electrode which are provided on the internal surface of the first insulating support are dividedly formed by the first type of slits provided on the electrical conductive layer.

49. (New) The biosensor as defined in Claim 45, wherein the electrode part is provided on the whole or part of the internal surface of only the first insulating support, and the electrode part provided on the internal surface of the first insulating support is dividedly formed by the first type of slits provided on the electrical conductive layer.

50. (New) The biosensor as defined in Claim 45, wherein the counter electrode has an area equal to or larger than that of the working electrode.

51. (New) The biosensor as defined in Claim 47, wherein the counter electrode and the detecting electrode have a total area that is equal to or larger than that of the working electrode.

52. (New) The biosensor as defined in Claim 51, wherein the area of the detecting electrode in the specimen supply path of the biosensor is equal to the area of the counter electrode.

53. (New) The biosensor as defined in Claim 45, wherein a spacer is provided which has a cutout part for forming the specimen supply path and is placed on the electrode part, and the second insulating support is placed on the spacer.

54. (New) The biosensor as defined in Claim 53, wherein the spacer and the second insulating support are integral.

55. (New) The biosensor as defined in Claim 45, wherein an air hole leading to the specimen supply path is formed.

56. (New) The biosensor as defined in Claim 45, wherein a third type of slits is provided for dividing the electrical conductive layer to define an area of the electrode part.

57. (New) The biosensor as defined in Claim 56, wherein the first insulating support and the second insulating support are approximately rectangular in shape, and one of the third type of slits or two or more of the third type of slits are provided in parallel to one side of the approximate rectangle shape.

58. (New) The biosensor as defined in Claim 45 comprising information of correction data generated for each production lot of the biosensor, which correspond to

characteristics concerning output of an electrical change resulting from a reaction between the sample liquid and the reagent layer and can be discriminated by a measuring device employing the biosensor.

59. (New) The biosensor as defined in Claim 58, wherein one or a plurality of a fourth type of slits dividing the electrode part are provided, and the measuring device can discriminate the information of the correction data according to positions of the fourth type of slits.

60. (New) The biosensor as defined in Claim 45, wherein at least one or all of the first type of slits, the second type of slits which are provided around a position where the reagent is dripped so as to form the reagent layer, the third type of slits which are provided for dividing the electrical conductive layer to define an area of the electrode part, and the fourth type of slits which divide the electrode part, are formed by processing the electrical conductive layer by a laser.

61. (New) The biosensor as defined in Claim 60, wherein the first type of slits, the second type of slits, the third type of slits, and the fourth type of slits have a slit width of 0.005 mm to 0.3 mm.

62. (New) The biosensor as defined in Claim 45, wherein the reagent layer comprises an enzyme.

63. (New) The biosensor as defined in Claim 45, wherein the reagent layer comprises an electron transfer agent.

Applicants: Shoji Miyazaki et al.
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Filed: Herewith
page 7

64. (New) The biosensor as defined in Claim 45, wherein the reagent layer comprises a hydrophilic polymer.

65. (New) The biosensor as defined in Claim 45, wherein the insulating support is made of a resin material.